# FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

### Harrison Engine Service 301 Detroit Street LaPorte, Indiana 46350

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F091-12536-00123

Issued by:

Paul Dubenetzky, Branch Chief

Office of Air Quality

Issuance Date: June 4, 2001

Expiration Date: June 4, 2006

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Emergency/Occurrence Report
Quarterly Report
Quarterly Deviation and Compliance Monitoring Report
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#### SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

#### A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates an stationary aircraft cyclinder rebuilding facility...

Authorized individual: Harrison Engine Service

Source Address: 301 Detroit Street, LaPorte, Indiana 46350 Mailing Address: 301 Detroit Street, LaPorte, Indiana 46350

Phone Number: (219) 362-9707

SIC Code: 7680 Source Location Status: LaPorte

County Status: Attainment for all criteria pollutants

Source Status: Federally Enforceable State Operating Permit (FESOP)

Minor Source, under PSD;

Minor Source, Section 112 of the Clean Air Act

#### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) batch open top degreaser with a daily consumption rate of 1.996 gallons/day trichloroethylene used to degrease a maximum of 2.5 aluminum aircraft cyclinders/hour using superheated vapor, reduced room draft, and a freeboard ratio of 1.0 as volatile organic compound (VOC) controls and exhausting to stack, "Degreaser X;"
- (b) One (1) paint spray booth, identified as SGI, controlling particulate matter (PM) emissions with a dry paint filter and exhausting to stack "Paint X;" and
- (c) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 97.02 million Ampere-hours (97,020,000 A-hr) consisting of:
  - (1) Four (4) hard chromium electroplating tanks, identified as Tanks 1, 2, 3, and 4, equipped with a packed-bed scrubber/composite mesh pad system exhausting to stack "Scrubber X."

#### A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
  - (1) One (1) natural gas boiler rated at 0.42 MMBtu/hour exhausting to stack "Boiler X";
  - (2) One (1) natural gas forced air furnace rated at 0.075 MMBtu/hour;
  - (3) One (1) natural gas forced air furnace rated at 0.20 MMBtu/hour;

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- (4) One (1) natural gas water heater rated at 0.04 MMBtu/hour exhausting to stack "Boiler X":
- (5) One (1) natural gas cylinder expansion oven rated at 0.25 MMBtu/hour exhausting to stack "Expansion Oven;" and
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
  - (1) One (1) tungsten inert gas (TIG) welding operation consisting of two (2) welding stations identified as "TIG Weld 1" and TIG Weld 2" with a maximum metal consumption per station of 0.02 pounds/hours and exhausting to stack "Weld X."

#### A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

#### A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

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#### SECTION B GENERAL CONDITIONS

#### B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

#### B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

#### B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not effect the expiration date.

#### B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

#### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

#### B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

#### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

#### B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit, or for informaiont claimed to the confidential, the Permittee may furnish such records directly to the U.S. EPA along with a claim of confidentiality.

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(c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

#### B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

#### B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

#### B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

#### B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the

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shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper

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maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

#### B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance

Section) or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent either by mail or facsimile, to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

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The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

#### B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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using the attached Quarterly Deviation and Compliance Monitoring Report, or its equilvalent. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
  - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
  - (2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

(c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

# B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

#### B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list

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contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
  - (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
  If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

#### B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

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#### B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act:
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:
  - (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

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- (c) Emission Trades [326 IAC 2-8-15(c)]

  The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

  The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

#### B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by 326 IAC 2-8-11.1.

#### B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IAC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, any records that must be kept under the conditions of this permit;
- (c) Inspect, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

#### B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

#### B.23 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

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#### **SECTION C**

#### **SOURCE OPERATION CONDITIONS**

#### **Entire Source**

#### **Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period.
  - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

#### C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

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#### C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

#### C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

- C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140] [40 CFR 61, Subpart M]
  - (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
  - (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
    - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
    - (2) If there is a change in the following:
      - (A) Asbestos removal or demolition start date;
      - (B) Removal or demolition contractor; or
      - (C) Waste disposal site.
  - (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
  - (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC
14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are
applicable for any removal or disturbance of RACM greater than three (3) linear feet on
pipes or three (3) square feet on any other facility components or a total of at least 0.75
cubic feet on all facility components.

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(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator,
prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to
thoroughly inspect the affected portion of the facility for the presence of asbestos. The
requirement that the inspector be accredited is federally enforceable.

#### Testing Requirements [326 IAC 2-8-4(3)]

#### C.8 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### Compliance Requirements [326 IAC 2-1.1-11]

#### C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

#### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

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in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

#### C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

#### Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68;
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### C.13 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]

- The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:
  - (1) This condition;
  - (2) The Compliance Determination Requirements in Section D of this permit;
  - (3) The Compliance Monitoring Requirements in Section D of this permit;
  - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
  - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:

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- (A) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
- (B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps may constitute a violation of the permit.
- (c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:
  - (1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (e) All monitoring required in Section D shall be performed at all times the equipment is operating. If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
  - (1) At its discretion, IDEM may excuse the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any guarter.
  - (2) Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.
- C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]
  - (a) When the results of a stack test performed in conformance with Section C Performance Testing, of this permit exceed the level specified in any condition of this
    permit, the Permittee shall take appropriate response actions. The Permittee shall
    submit a description of these response actions to IDEM, OAQ, within thirty (30) days of
    receipt of the test results. The Permittee shall take appropriate action to minimize

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excess emissions from the affected facility while the response actions are being implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

#### C.15 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

#### C.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken, must be reported. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

#### **Stratospheric Ozone Protection**

#### C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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#### **SECTION D.1**

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-8-4(10)]:

(a) One (1) batch open top degreaser with a daily consumption rate of 1.996 gallons/day trichloroethylene used to degrease a maximum of 2.5 aluminum aircraft cyclinders/hour using superheated vapor, reduced room draft, and a freeboard ratio of 1.0 as volatile organic compound (VOC) controls and exhausting to stack, "Degreaser X;"

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-5(1)]

D.1.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart T.

#### D.1.2 FESOP Limit [326 IAC 2-8]

This facility shall use a total of less than ten (10) tons of each individual HAP per twelve (12) consecutive months. This usage limit is required to limit the potential to emit of each individual HAP to less than ten (10) tons per year. Compliance with this limit fulfills the requirements of 326 IAC 2-8 (FESOP).

- D.1.3 Halogenated Solvent Cleaning Machine NESHAP [326 IAC 20-6] [40 CFR Part 63, Subpart T]
   This facility is subject to 40 CFR Part 63, Subpart T, (Halogenated Solvent Cleaning Machine NESHAP), which is incorporated by reference as 326 IAC 20-6-1.
  - (a) That pursuant to 40 CFR 63.463(a) & (b), the Permittee shall conform to the following design requirements:
    - (1) The cleaning machine shall be designed or operated such that it has a reduced room draft as described in 40 CFR 63.463(e)(2)(ii).
    - (2) The cleaning machine shall be employed with a control combination of reduced room draft, freeboard ratio of 1.0, and superheated vapor.
    - (3) Cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minutes (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts.
    - (4) Cleaning machine shall be equipped with a device that shuts off sump heat if the sump liquid solvent level drops to the sump heater coils.
    - (5) Cleaning machine shall have a primary condenser.
    - (6) Cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
  - (b) That pursuant to 40 CFR 63.463(d), the following work and operational practice requirements for the degreasing operation are applicable:
    - (1) Control air disturbances across the cleaning machine opening(s) by creating a reduced room draft as described in 40 CFR 63.463(e)(2)(ii).

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- (2) The parts baskets or the parts being cleaned in the cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meters per minute (3 feet per minute) or less.
- (3) Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air.
- (4) Parts shall be oriented so that the solvents drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the commissioner.
- (5) Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.
- (6) During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.
- (7) During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.
- (8) When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leak proof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.
- (9) Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the commissioner's satisfaction to achieve the same or better results as those recommended by the manufacturer.
- (10) Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in appendix B of 40 CFR 63, if requested during an inspection by the commissioner.
- (11) Waste solvents, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.
- (12) Sponges, fabric, wood, and paper products shall not be cleaned.
- (c) That pursuant to 40 CFR 63.463(e), the Permittee shall comply with the following requirements:
  - (1) The Permittee shall conduct monitoring of each control device used to comply with §63.463 as provided in 40 CFR 63.466, monitoring procedures.
  - (2) Determine during each monitoring period if the control device used to comply with the above standards meets the following requirements:
    - (A) When using a reduced room draft the Permittee shall:

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(i) ensure that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at anytime as measured using the procedures in 40 CFR 63.466(d).

- (ii) establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in 40 CFR 63.466 (d).
- (B) When using a superheated vapor system the Permittee shall:
  - (i) ensure that the temperature of the solvent vapor at the center of the superheated vapor zone is at least 10EF above the solvent's boiling point.
  - (ii) ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed.
  - (iii) ensure that parts remain within the superheated vapor for at least the minimum proper dwell time.
- (3) An exceedance has occurred if:
  - (A) The requirements of paragraphs (c)(2)(A)(ii), (c)(2)(B)(ii), and (c)(2)(B)(iii) of this condition are not met, and
  - (B) The requirements of paragraphs (c)(2)(A)(i) and (c)(2)(B)(i) of this condition have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameters must be remeasured immediately upon adjustment or repair and demonstrated to be within the required limits.
- (4) The owner or operator shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in 40 CFR 63.468.

#### Compliance Determination Requirements [326 IAC 2-1.1-11] [326 IAC 2-8-5(a)(1)&(4)]

D.1.4 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-8-5(a)(1)&(4)] [40 CFR 63.465]

The Permittee is not required to test this facility by this permit or by 40 CFR Part 63; 40 CFR 63.465 Test Methods. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance.

#### Compliance Monitoring Requirements [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)]

#### D.1.5 Monitoring Procedures [326 IAC 20-6] [40 CFR 63.466]

That pursuant to 40 CFR 63.466 the Permittee shall comply with the following monitoring procedures:

- (a) The Permittee shall conduct monitoring and record the results on a weekly basis for the control devices, as appropriate, specified in paragraph(s) below:
  - (1) The Permittee shall use a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode.

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(b) The Permittee shall monitor the hoist speed as described below:

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- (1) The Permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes.
- (2) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the Permittee may begin monitoring the hoist speed quarterly.
- (3) If the exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to the monthly until another year of compliance without an exceedance is demonstrated.
- (4) If the Permittee can demonstrate to the commissioner's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.
- (c) The Permittee shall conduct monitoring and record the results, for a reduced room draft, as specified in the following paragraphs:
  - (1) The Permittee shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the windspeed within the enclosure using the procedure specified below and a monthly visual inspection of the enclosure to determine if it is free of cracks, holes and other defects.
    - (A) Determine the direction of the wind current in the enclosure by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located.
    - (B) Record the maximum wind speed.

#### Record Keeping and Reporting Requirements [326 IAC 2-8-5(3)] [326 IAC 2-8-19]

#### D.1.6 Recordkeeping Requirements [326 IAC 20-6] [40 CFR 63.467]

- (a) The Permittee shall maintain, in written or electronic form, records of the following information specified below, for the life time of the machine,
  - (1) Owners's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment.
  - (2) The date of installation of the solvent cleaning machine and all of its control devices. If the exact date of the installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.
  - (3) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine.
- (b) The Permittee shall maintain, in written or electronic form, records of the following information specified below for a period of 5 years:
  - (1) The results of control device monitoring required under 40 CFR 63.466.

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- (2) Information on the actions taken to comply with 40 CFR 63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.
- (3) Estimates of annual solvent consumption for each solvent cleaning machine.
- (c) To document compliance with Condition D.1.2, the permittee shall maintain records of the HAP usage for each single HAP for each month and the weight of each single HAP emitted for each compliance period.
- (d) All records shall be maintained in accordance with Section C-General Recordkeeping Requirements, of this permit.

#### D.1.7 Reporting Requirements [326 IAC 20-6] [40 CFR 63.468]

(a) A summary of the information to document compliance with Conditions D.1.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, and to the following address:

United States Environmental Protection Agency, Region V Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

- (b) Submit an initial notification report immediately. The report shall include the following information:
  - (1) The name and address of the owner or operator.
  - (2) The address of the solvent cleaning machine.
  - (3) A brief description of each solvent cleaning machine including machine type, solvent/air interface area, and existing controls.
  - (4) The date of installation of the solvent cleaning machine.
  - (5) The anticipated compliance approach for the solvent cleaning machine.
  - (6) An estimated annual halogenated HAP solvent consumption for the solvent cleaning machine.
- (c) Submit an initial statement of compliance for the solvent cleaning machine immediately. This statement shall include:
  - (1) The name and address of the owner or operator.
  - (2) The address (i.e., physical location) of the solvent cleaning machine(s).
  - (3) A list of the control equipment used to achieve compliance to solvent cleaning machine.
  - (4) For each piece of control equipment required to be monitored, a list of the parameters that are monitored and the values of these parameters measured on or during the first month after the compliance date.
  - (5) Conditions to maintain the wind speed requirements of 40 CFR 63.463(e)(2)(ii), if applicable.

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- (d) The Permittee shall submit an annual report by February 1 of each year following the one for which the reporting is being made. This report shall include the requirements as follows:
  - (1) A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR 63.463(d)(10)."
  - (2) An estimate of solvent consumption for each solvent cleaning machine during the reporting period.
- (e) The Permittee shall submit an exceedance report to the commissioner semiannually except when, the commissioner determines, on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the Permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph 40 CFR 63.468 (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calender half or quarter, as appropriate. The exceedance report shall include the applicable information as given below:
  - (1) Information on the actions taken to comply with 40 CFR63. 463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.
  - (2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.
  - (3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.
- (e) That pursuant to 40 CFR 63.463(i), the Permittee who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the following conditions are met:
  - (1) The source has demonstrated a full year of compliance without an exceedance.
  - (2) The Permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in Subpart A (General Provisions) and in 40 CFR 63, Subpart T
  - (3) The commissioner does not object to a reduced frequency of reporting for the affected source as provided in paragraphs (e)(3)(iii) of Subpart A (General Provisions) of 40 CFR 63.
- (f) The Permittee of a solvent cleaning machine requesting an equivalency determination, as described in 40 CFR 63.469 shall submit an equivalency request report to the commissioner and receive an approval prior to startup.
- (g) A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the address listed in Section C General Reporting Requirements, of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

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#### **SECTION D.2**

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-8-4(10)]:

(b) One (1) paint booth spray gun, identified as SGI, controlling particulate matter (PM) emissions with a dry paint filter and exhausting to stack "Paint X;"

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.2.1 Particulate Matter (PM) [326 IAC 6-3-2]

- (a) Potential emissions from the paint booth are less than 15 pounds per day. Therefore, 326 IAC 8-2-9 will not apply. Any change or modification which may increase the actual emissions to 15 pounds per day or more of volatile organic compounds must be approved by the Office of Air Quality before any such change may occur.
- (b) This limit includes the evaporation of thinners being added to coatings to adjust viscosity, therefore, its is necessary to keep coating and solvent containers covered at all times to prevent solvent evaporation.

#### D.2.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the PM from the paint booth (SG1) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

 $E = 4.10 P^{0.67}$  where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

#### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.2.3 Particulate Matter (PM)

The dry paint filter for PM control shall be in operation at all times when the paint booth (SG1) is in operation.

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#### Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

#### D.2.4 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.1, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.1.
  - (1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (2) A log of the dates of use;
  - (3) The cleanup solvent usage for each month;
  - (4) The total VOC usage for each month; and
  - (5) The weight of VOCs emitted for each compliance period.
- (b) All records shall be maintained in accordance with Section C General Record Keeping Requirements, of this permit.

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#### SECTION D.3

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-7-5(15)]:

- (c) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 97.02 million Ampere-hours (97,020,000 A-hr) consisting of:
  - (1) Four (4) hard chromium electroplating tanks, identified as Tanks 1, 2, 3, and 4, equipped with a packed-bed scrubber/composite mesh pad system exhausting to stack "Scrubber X."

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-5(1)]

- D.3.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

  The provisions of 40 CFR Part 63, Subpart A General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N. The permittee shall comply with the requirements of this condition on and after the compliance date for the tanks.
- D.3.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]

  The provisions of 40 CFR 63, Subpart N National Emission Standards for Chromium Emissions

  From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are
  incorporated by reference as 326 IAC 20-8-1, apply to tanks 1, 2, 3, and 4. A copy of this rule is
  attached. The permittee shall comply with the requirements of this condition on and after the
  compliance date for the tanks.
- D.3.3 Chromium Emissions Limitation [326 IAC 20-8-1] [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)]
  - (a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.
  - (b) The hard chromium electroplating tanks, identified as Tanks 1, 2, 3, and 4 above, are considered a large, existing hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 mg/dscm [6.6x10<sup>-6</sup> gr/dscf].

#### D.3.4 Work Practice Standards [326 IAC 20-8-1] [40 CFR 63.342(f)]

The following work practice standards apply to tanks 1, 2, 3, and 4:

- (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain tanks 1, 2, 3, and 4, including the packed-bed scrubber/composite mesh pad system and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.3.6.
- (b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.3.6.
- (c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.

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- (d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAQ, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.
- (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.3.6. Revisions may be required if IDEM, OAQ finds that the plan:
  - (1) Does not address a malfunction or period of excess emissions that has occurred:
  - (2) Fails to provide for the operation of tanks 1, 2, 3, and 4, or the packed-bed scrubber/composite mesh pad system and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
  - Obes not provide adequate procedures for correcting malfunctioning process equipment, packed-bed scrubber/composite mesh pad system, monitoring equipment or other causes of excess emissions as quickly as practicable.

The work practice standards that address operation and maintenance must be followed during malfunctions and periods of excess emissions.

#### D.3.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for the tanks 1, 2, 3, and 4 and the packed-bed scrubber/composite mesh pad system.

#### D.3.6 Operation and Maintenance Plan [326 IAC 20-8-1] [40 CFR 63.342(f)(3)]

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of tanks. The OMP shall specify the operation and maintenance criteria for the tanks, the packed-bed scrubber/composite mesh pad system and monitoring equipment shall include the following elements:
  - (1) For the packed-bed scrubber/composite mesh-pad system (PBS/CMP):
    - (A) Quarterly visual inspections of the device to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device.
    - (B) Quarterly visual inspection of the back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.
    - (C) Quarterly visual inspection of the duct work from the tank to the control device to ensure there are no leaks
    - (D) Perform washdown of the composite mesh-pads in accordance with manufacturers recommendations.
  - (2) A standardized checklist to document the operation and maintenance criteria for tanks 1, 2, 3, and 4, the air pollution control device, the add-on air pollution control device and the monitoring equipment.
  - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur.

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- (4) A systematic procedure for identifying malfunctions and periods of excess emissions of tanks 1, 2, 3, and 4, the air pollution control device, the add-on air pollution control device and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.
- (b) The Permittee may use applicable standard operating procedures (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.3.5, as the OMP, provided the alternative plans meet the above listed criteria in Condition D.3.6(a).
- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining tanks 1, 2, 3, and 4, the air pollution control device, the add-on air pollution control device and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
- (d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of tanks 1, 2, 3, and 4 or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

#### Compliance Determination Requirements [326 IAC 2-1.1-11] [326 IAC 2-8-5(a)(1)&(4)]

- D.3.7 Performance Testing [326 IAC 2-1.1-11] [326 IAC 2-8-5(a)(1)&(4)] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344]
  - (a) A performance test demonstrating initial compliance for tanks 1, 2, 3, and 4 was performed on July 9, 1998.
    - During the initial performance test, it was determined that the average pressure drop across the composite mesh pad system was 2.7 inches of water and the average outlet chromium concentration is 0.0087.
  - (b) The Permittee is not required to further test tanks 1, 2, 3, and 4 by this permit. However, the IDEM may require testing when necessary to determine if the tanks are in compliance. If testing is required by the IDEM, compliance with the limit specified in Condition D.3.3 shall be determined by a performance test conducted in accordance with 40 CFR 63.344 and Section C Performance Testing.
  - (c) Any change, modification, or reconstruction of the tanks 1, 2, 3, and 4 the scrubber or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C Performance Testing.

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#### Compliance Monitoring Requirements [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)]

D.3.8 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)] [40 CFR 63.343(c)]

- (a) Pursuant to 40 CFR 63.343(c)(3) and 40 CFR 63.343(c)(1)(ii), when using a pack-bed scrubber in conjunction with a composite mesh-pad system to comply with the limit specified in Condition D.3.3, the Permittee shall monitor and record the pressure drop across the composite mesh-pad system during tank operation once each day that the hard chromium electroplating tank is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ±1 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple performance tests.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and the rectifier is turned on. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts is considered operating time.

#### Record Keeping and Reporting Requirements [326 IAC 2-8-5(3)] [326 IAC 2-8-19]

#### D.3.9 Record Keeping Requirements [326 IAC 2-8-5(3)] [40 CFR 63.346]

The Permittee shall maintain records to document compliance with Conditions D.3.3, D.3.4 and D.3.6 using the forms provided with this permit. These records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit and include a minimum of the following:

- (a) Inspection records for the packed-bed scrubber/composite mesh pad system and monitoring equipment to document that the inspection and maintenance required by Conditions D.3.7 and D.3.8 have taken place. The record can take the form of a checklist and should identify the following:
  - (1) The device inspected;
  - (2) The date of inspection;
  - (3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and
  - (4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.
- (b) Records of all maintenance performed on tanks 1, 2, 3, and 4, the packed-bed scrubber/composite mesh pad system and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of tanks 1, 2, 3, and 4, the packed-bed scrubber/composite mesh pads system, the monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tanks 1, 2, 3, and 4, the packed-bed scrubber/composite mesh pad system and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- (e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.

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(f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.

- (g) Test reports documenting results of all performance tests.
- (h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.
- (j) The total process operating time, as defined in Condition D.3.8(b), of each tank, during the reporting period.
- (k) Records of the actual cumulative rectifier capacity of each hard chromium electroplating tank expended during each month of the reporting period, and the total capacity expended to date for a reporting period.
- (I) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.3.10.

### D.3.10 Reporting Requirements [326 IAC 2-8-5(3)] [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347]

The notifications and reports required in this section shall be submitted to IDEM, OAQ using the address specified in Section C - General Reporting Requirements.

- (a) Notifications:
  - (1) Initial Notifications
    The permittee shall notify IDEM, OAQ, in writing that the source is subject to 40
    CFR Part 63, Subpart N. The notification shall be submitted no later than one
    hundred eighty (180) days after the compliance date and shall contain the
    information listed in 40 CFR 63.347(c)(1).
  - (2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.
    - (A) A NCS shall be submitted to IDEM, OAQ, and shall list, for each tank the information identified in 40 CFR 63.347(e)(2).
    - (B) The NCS for tanks 1, 2, 3, and 4 shall be submitted to IDEM, OAQ immediately.
  - (3) Notification of Construction or Reconstruction
    Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank
    subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40
    CFR 63.344(e)) without submitting a Notification of Construction or
    Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not
    change, modify, or reconstruct tanks 1, 2, 3 or 4 without submitting a Notification
    of Construction or Reconstruction (NCR) to IDEM, OAQ.
    - (A) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).
    - (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of

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controlling both existing tanks and non-affected facilities by a common control technique or device [i.e., the addition of duct work to the PBS/CMP system (NOTE: Include example only if a PBS/CMP system is used to demonstrate compliance with the chromium emission limitation)].

- (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct tanks 1, 2, 3, or 4 serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.
- (b) Performance Test Results

The Permittee shall document results from any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

(c) Ongoing Compliance Status Report
The Permittee shall prepare summary reports to document the ongoing compliance
status of tanks 1, 2, 3, and 4 using the Ongoing Compliance Status Report form
provided with this permit. This report shall contain the information specified in 40 CFR
63.347(g)(3).

Because tanks 1, 2, 3, and 4 are located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
  - (A) The first report shall cover the period from the issuance date of this permit to December 31 of the year in which the permit is issued.
  - (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (2) If either of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ:
  - (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.3.8(b) for the reporting period; or
  - (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.3.8(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to

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reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

(3) IDEM, OAQ may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

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#### **SECTION D.4**

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-7-5(15)]:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
  - (1) One (1) natural gas boiler rated at 0.42 MMBtu/hour exhausting to stack "Boiler X";
  - (2) One (1) natural gas forced air furnace rated at 0.075 MMBtu/hour;
  - (3) One (1) natural gas forced air furnace rated at 0.20 MMBtu/hour;
  - (4) One (1) natural gas water heater rated at 0.04 MMBtu/hour exhausting to stack "Boiler X":
  - (5) One (1) natural gas cylinder expansion oven rated at 0.25 MMBtu/hour exhausting to stack "Expansion Oven;" and

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-5(1)]

#### D.4.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from the 0.42 MMBtu per hour heat input boiler shall be limited to 0.6 pounds per MMBtu heat input.

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#### **SECTION D.5**

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-7-5(15)]:

- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
  - (1) One (1) tungsten inert gas (TIG) welding operation consisting of two (2) welding stations identified as "TIG Weld 1" and TIG Weld 2" with a maximum metal consumption per station of 0.02 pounds/hours and exhausting to stack "Weld X."

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-5(1)]

#### D.5.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate shall not exceed 0.551 pounds per hour when operating at a process weight rate of less than 100 pounds per hour. The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

 $E = 4.10 P^{0.67}$  where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

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# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Harrison Engine Service

Source Address: 301 Detroit Street, LaPorte, IN 46350 Mailing Address: 301 Detroit Street, LaPorte, IN 46350

FESOP No.: 091-12536-00123

| This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Please check what document is being certified:                                                                                                                    |
| 9 Annual Compliance Certification Letter                                                                                                                          |
| 9 Test Result (specify)                                                                                                                                           |
| 9 Report (specify)                                                                                                                                                |
| 9 Notification (specify)                                                                                                                                          |
| 9 Affidavit (specify)                                                                                                                                             |
| 9 Other (specify)                                                                                                                                                 |
|                                                                                                                                                                   |
| I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. |
| Signature:                                                                                                                                                        |
| Printed Name:                                                                                                                                                     |
| Title/Position:                                                                                                                                                   |
| Date:                                                                                                                                                             |

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### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674

Fax: 317-233-5967

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY/OCCURRENCE REPORT

Source Name: Harrison Engine Service

Source Address: 301 Detroit Street, LaPorte, IN 46350 Mailing Address: 301 Detroit Street, LaPorte, IN 46350

FESOP No.: 091-12536-00123

#### This form consists of 2 pages

Page 1 of 2

9This is an emergency as defined in 326 IAC 2-7-1(12)

CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and

CThe Permittee must submit notice by mail or facsimile within two (2) days (Facsimile

Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

| Facility/Equipment/Operation:                       |
|-----------------------------------------------------|
| Control Equipment:                                  |
| Permit Condition or Operation Limitation in Permit: |
| Description of the Emergency:                       |
| Describe the cause of the Emergency:                |

### If any of the following are not applicable, mark N/A Page 2 of 2 Date/Time Emergency started: Date/Time Emergency was corrected: Was the facility being properly operated at the time of the emergency? Ν Describe: Type of Pollutants Emitted: TSP, PM-10, SO<sub>2</sub>, VOC, NO<sub>x</sub>, CO, Pb, other: Estimated amount of pollutant(s) emitted during emergency: Describe the steps taken to mitigate the problem: Describe the corrective actions/response steps taken: Describe the measures taken to minimize emissions: If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: Form Completed by: Title / Position: Date: Phone:

A certification is not required for this report.

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Harrison Engine Service LaPorte, Indiana Permit Reviewer: ERG/MT

Phone:

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION**

|                                                                                                        | FESOF                                                                                                                                                    | P Quarterly Report               |                     |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|
| Source Name:<br>Source Address:<br>Mailing Address:<br>FESOP No.:<br>Facility:<br>Parameter:<br>Limit: | Harrison Engine Service<br>301 Detroit Street, LaPo<br>301 Detroit Street, LaPo<br>091-12536-00123<br>Degreaser<br>HAP usage<br><10 tons per year of a s | orte, IN 46350<br>orte, IN 46350 |                     |
|                                                                                                        | Column 1                                                                                                                                                 | Column 2                         | Column 1 + Column 2 |
| Month                                                                                                  | This Month                                                                                                                                               | Previous 11 Months               | 12 Month Total      |
| Month 1                                                                                                |                                                                                                                                                          |                                  |                     |
| Month 2                                                                                                |                                                                                                                                                          |                                  |                     |
| Month 3                                                                                                |                                                                                                                                                          |                                  |                     |
| 9                                                                                                      | ·                                                                                                                                                        | •                                |                     |
| Titl                                                                                                   | le / Position:<br>gnature:                                                                                                                               |                                  |                     |

A certification is not required for this report.

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# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) QUARTERLY DEVIATION and COMPLIANCE MONITORING REPORT

Source Name: Harrison Engine Service 301 Detroit Street, LaPorte, IN 46350 Source Address: Mailing Address: 301 Detroit Street, LaPorte, IN 46350 FESOP No.: 091-12536-00123 Months: \_\_\_\_\_ to \_\_\_\_ Year: \_\_\_\_ Page 1 of 2 This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period". 9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD. 9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD Permit Requirement (specify permit condition #) Date of Deviation: **Duration of Deviation: Number of Deviations: Probable Cause of Deviation:** Response Steps Taken: Permit Requirement (specify permit condition #) Date of Deviation: **Duration of Deviation: Number of Deviations: Probable Cause of Deviation:** Response Steps Taken:

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|                                                 | <u> </u>               |
|-------------------------------------------------|------------------------|
| Permit Requirement (specify permit condition #) |                        |
| Date of Deviation:                              | Duration of Deviation: |
| Number of Deviations:                           |                        |
| Probable Cause of Deviation:                    |                        |
| Response Steps Taken:                           |                        |
| Permit Requirement (specify permit condition #) |                        |
| Date of Deviation:                              | Duration of Deviation: |
| Number of Deviations:                           |                        |
| Probable Cause of Deviation:                    |                        |
| Response Steps Taken:                           |                        |
| Permit Requirement (specify permit condition #) |                        |
| Date of Deviation:                              | Duration of Deviation: |
| Number of Deviations:                           |                        |
| Probable Cause of Deviation:                    |                        |
| Response Steps Taken:                           |                        |
| Form Completed By:                              |                        |
| , , ,                                           |                        |
| Title/Position:                                 |                        |
| Date:                                           |                        |
| Phone:                                          |                        |

Attach a signed certification to complete this report.

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Harrison Engine Service LaPorte, Indiana Permit Reviewer: ERG/MT

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

## PART 70 OPERATING PERMIT CHROMIUM ELECTROPLATING AND ANODIZING NESHAP ONGOING COMPLIANCE STATUS REPORT

Source Name: Harrison Engine Service

Source Address: 301 Detroit Štreet, LaPorte, IN 46350 Mailing Address: 301 Detroit Street, LaPorte, IIN 46350

FESOP Permit No.: 091-12536-00123 Tank ID #: Tanks 1, 2, 3, and 4

Type of process: Hard

Monitoring Parameter: Pressure drop across the composite mesh pad system

Parameter Value:  $2.7 \pm inch$  of water

Limits: Total chromium concentration may not exceed 0.015 mg/dscm

This form is to be used to report compliance for the Chromium Electroplating and Anodizing NESHAP only.

The frequency for completing this report may be altered by IDEM, OAQ, Compliance Branch.

#### Companies classified as an area source:

Complete this report no later than 30 days after the end of the reporting period, and retain on site unless otherwise notified.

#### This form consists of 2 pages

Page 1 of 2

BEGINNING AND ENDING DATES OF THE REPORTING PERIOD:

TOTAL OPERATING TIME OF THE TANK DURING THE REPORTING PERIOD:

#### MAJOR AND AREA SOURCES: CHECK ONE

- 9 NO DEVIATIONS OF THE MONITORING PARAMETER ASSOCIATED WITH THIS TANK FROM THE COMPLIANT VALUE OR RANGE OF VALUES OCCURRED DURING THIS REPORTING PERIOD.
- THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES DURING THIS REPORTING PERIOD (THUS INDICATING THE EMISSION LIMITATION MAY HAVE BEEN EXCEEDED, WHICH COULD RESULT IN MORE FREQUENT REPORTING).

#### AREA (I.E., NON-MAJOR) SOURCES OF HAP ONLY:

IF DEVIATIONS OCCURRED, LIST THE AMOUNT OF TANK OPERATING TIME EACH MONTH THAT MONITORING RECORDS SHOW THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES.

| JAN | APR | JUL | ОСТ |
|-----|-----|-----|-----|
| FEB | MAY | AUG | NOV |
| MAR | JUN | SEP | DEC |

| HARD CHROME TANKS / MAX | XIMUM RECTIFIER CAPACITY | LIMITED IN ACCORDANCE WIT | H 40 CFR 63.342(c)(2) ONLY: |
|-------------------------|--------------------------|---------------------------|-----------------------------|
| LIST THE ACTUAL AMPERE- | HOURS CONSUMED (BASED O  | N AN AMP-HR METER) BY THE | INDIVIDUAL TANK.            |
|                         |                          |                           |                             |

| Elet THE NOTONE TWIN EIGE HOURS GONGOMED (BAGED GIV NIV NIVIII) THE METERY DIT THE MEDITION OF TAKING |     |     |     |  |  |
|-------------------------------------------------------------------------------------------------------|-----|-----|-----|--|--|
| JAN                                                                                                   | APR | JUL | ОСТ |  |  |
| FEB                                                                                                   | MAY | AUG | NOV |  |  |
| MAR                                                                                                   | JUN | SEP | DEC |  |  |

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### CHROMIUM ELECTROPLATING AND ANODIZING NESHAP ONGOING COMPLIANCE STATUS REPORT

| ATTACH A SEPARATE PAGE IF NEEDED Page 2 of 2                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IF THE OPERATION AND MAINTENANCE PLAN REQUIRED BY 40 CFR 63.342 (f)(3) WAS NOT FOLLOWED, PROVIDE AN EXPLANATION OF THE REASONS FOR NOT FOLLOWING THE PLAN AND DESCRIBE THE ACTIONS TAKEN FOR THAT EVENT:                                           |
| DESCRIBE ANY CHANGES IN TANKS, RECTIFIERS, CONTROL DEVICES, MONITORING, ETC. SINCE THE LAST STATUS REPORT:                                                                                                                                         |
| ADDITIONAL COMMENTS:                                                                                                                                                                                                                               |
| ALL SOURCES: CHECK ONE                                                                                                                                                                                                                             |
| 9 I CERTIFY THAT THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE; AND, THAT THE INFORMATION CONTAINED IN THIS REPORT IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE. |
| THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE NOT FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE, AS EXPLAINED ABOVE AND/OR ON ATTACHED.                                                                            |
| Submitted by:                                                                                                                                                                                                                                      |
| Title/Position:                                                                                                                                                                                                                                    |
| Signature:                                                                                                                                                                                                                                         |
| Date:                                                                                                                                                                                                                                              |
| Phone:                                                                                                                                                                                                                                             |
| Attach a signed certification to complete this report.                                                                                                                                                                                             |

## Indiana Department of Environmental Management Office of Air Quality

## Technical Support Document (TSD) for a Federally Enforceable Operating Permit (FESOP)

#### **Source Background and Description**

Source Name: Harrison Engine Service

Source Location: 301 Detroit Street, LaPorte, Indiana 46350

County: LaPorte SIC Code: 7680

Operation Permit No.: F091-12536-00123

Permit Reviewer: ERG/MT

The Office of Air Quality (OAQ) has reviewed a FESOP application from Harrison Engine Service relating to the operation of air craft cylinder rebuilding facility.

#### **Emission Units and Pollution Control Equipment**

The source consists of the following emission units and pollution control devices:

- (a) One (1) batch open top degreaser with a daily consumption rate of 1.996 gallons/day trichloroethylene used to degrease a maximum of 2.5 aluminum aircraft cyclinders/hour using superheated vapor, reduced room draft, and a freeboard ratio of 1.0 as volatile organic compound (VOC) controls and exhausting to stack, "Degreaser X;"
- (b) One (1) paint spray booth, identified as SGI, controlling particulate matter (PM) emissions with a dry paint filter and exhausting to stack "Paint X;" and
- (c) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 97.02 million Ampere-hours (97,020,000 A-hr) consisting of:
  - (1) Four (4) hard chromium electroplating tanks, identified as Tank 1, 2, 3, and 4, equipped with a composite mesh pad system exhausting to stack "Scrubber X."

#### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

#### **Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

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Harrison Engine Service LaPorte, Indiana 46350 Permit Reviewer: ERG/MT

- (1) One (1) natural gas boiler rated at 0.42 MMBtu/hour exhausting to stack "Boiler X";
- (2) One (1) natural gas forced air furnace rated at 0.075 MMBtu/hour;
- (3) One (1) natural gas forced air furnace rated at 0.20 MMBtu/hour;
- (4) One (1) natural gas water heater rated at 0.04 MMBtu/hour exhausting to stack "Boiler X":
- (5) One (1) natural gas cylinder expansion oven rated at 0.25 MMBtu/hour exhausting to stack "Expansion Oven;" and
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
  - (1) One (1) tungsten inert gas (TIG) welding operation consisting of two (2) welding stations identified as "TIG Weld 1" and TIG Weld 2" with a maximum metal consumption per station of 0.02 pounds/hours and exhausting to stack "Weld X."

#### **Existing Approvals**

There are no existing approvals for this source.

#### **Enforcement Issue**

- (a) IDEM is aware that this facility is not in compliance with 326 IAC 2-8-2 which required the source to submit a Title V permit application by December 14, 1996, or have a FESOP issued by that date.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the operating permit rules.

#### Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on July 25, 2000.

#### **Emission Calculations**

- (a) Chromium emissions (single HAP) from the biggest source in Indiana is less than ten (10) tons per year. Therefore, no calculations were necessary for the hard chromium electroplating operation because the emissions from this source will be ten (10) tons per year.
- (b) See Appendix A of this document for detailed emissions calculations pages 1-5.

#### **Potential To Emit**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| Pollutant       | Potential To Emit (tons/year) |
|-----------------|-------------------------------|
| PM              | 0.1                           |
| PM-10           | 0.1                           |
| SO <sub>2</sub> | 0.0                           |
| VOC             | 13.5                          |
| CO              | 0.4                           |
| NO <sub>x</sub> | 0.4                           |

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

| HAP's             | Potential To Emit (tons/year) |
|-------------------|-------------------------------|
| Trichloroethylene | 13.4                          |
| Other Total HAPs  | <1.0                          |
| TOTAL             | 13.4                          |

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

#### **Actual Emissions**

No previous emission data has been received from the source.

#### **Potential to Emit After Issuance**

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Federally Enforceable State Operating Permit. The source is taking limits on HAP use in the degreasing operation to bring emissions of a single HAP to below ten.

|                                         | Limited Potential to Emit<br>(tons/year) |       |                 |      |      |        |                |
|-----------------------------------------|------------------------------------------|-------|-----------------|------|------|--------|----------------|
| Process/facility                        | PM                                       | PM-10 | SO <sub>2</sub> | VOC  | СО   | $NO_X$ | Single<br>HAPs |
| Natural Gas<br>Combustion<br>Operations | 0.03                                     | 0.03  | 0.00            | 0.02 | 0.36 | 0.43   | 0.00           |
| Degreasing<br>Operations                |                                          |       |                 | <10  |      |        | <10            |

|                  | Limited Potential to Emit<br>(tons/year) |       |                 |      |      |                 |                |
|------------------|------------------------------------------|-------|-----------------|------|------|-----------------|----------------|
| Process/facility | PM                                       | PM-10 | SO <sub>2</sub> | VOC  | СО   | NO <sub>x</sub> | Single<br>HAPs |
| Welding          | 0.00                                     | 0.00  |                 |      |      |                 |                |
| Surface Coating  | 0.06                                     | 0.06  |                 | 0.07 |      |                 |                |
| Total Emissions  | 0.09                                     | 0.09  | 0.0             | <11  | 0.36 | 0.43            | <10            |

#### **County Attainment Status**

The source is located in LaPorte County.

| Pollutant       | Status                    |
|-----------------|---------------------------|
| PM-10           | Attainment                |
| SO <sub>2</sub> | Maintenance Attainment    |
| NO <sub>2</sub> | Attainment                |
| Ozone           | Unclassifiable/Attainment |
| СО              | Attainment                |
| Lead            | Attainment                |

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC and  $NO_x$  emissions are considered when evaluating the rule applicability relating to the ozone standards. LaPorte County has been designated as attainment or unclassifiable for ozone.

#### **Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source, including 40 CFR 60, Subpart Dc, which does not apply because the boiler located at this source has a maximum design heat input of less than the applicability threshold of 10 million Btu/hr.
- (b) Tanks 1, 2, 3, and 4 are subject to the National Emission Standards for Hazardous Air Pollutants, 326 IAC 20, (40 CFR 63, Subpart N). Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20, the chromium electroplating operations are subject to the following conditions:

#### (1) Emission limitation:

The permittee shall comply with the requirements of this condition on and after the compliance date for the tanks.

The hard chromium electroplating tanks, identified as Tank 1, Tank 2, Tank 3, and Tank 4 above, are considered a large, existing hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed fifteen-thousandth milligrams of total chromium per dry standard cubic meter of ventilation air (0.015 mg/dscm) [equivalent to six and six-tenths times ten raised to the power of negative six grains of total chromium per dry standard cubic foot of ventilation air (6.6x10-6 gr/dscf)].

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Harrison Engine Service LaPorte, Indiana 46350 Permit Reviewer: ERG/MT

#### (2) Monitoring Requirements:

Tanks 1, 2, 3, and 4 shall be operated such that the pressure drop across the composite mesh-pad system shall be operated within  $\pm 1$  inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple performance tests. The pressure drop shall be monitored once each day that a hard chromium electroplating tank is operating.

#### (3) Reporting Requirements:

A summary report shall be prepared to document the ongoing compliance status of the chromium electroplating operation. This report shall be completed annually, retained on site, and made available to IDEM upon request. If there are significant exceedances of chromium air emission limits (as defined in 40 CFR Part 63.347(h)(2)), then semiannual reports shall be submitted to:

Indiana Department of Environmental Management Air Compliance Branch, Office of Air Quality Chromium Electroplating 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206

- (4) The chromium electroplating operations shall be subject to the record keeping and reporting requirement as indicated in the chromium electroplating NESHAP.
- (c) The batch open top degreaser is subject to the National Emission Standards for Hazardous Air Pollutants 326 IAC 20, (40 CFR Part 63, Subpart T). Pursuant to 40 CFR 63, Subpart T and 326 IAC 20, the batch open top degreaser is subject to the following conditions:

#### (1) Equipment Standard:

The cleaning machine shall be designed or operated such that it has a reduced room draft as described in 40 CFR 63.463(e)(2)(ii). The cleaning machine shall be employed with a control combination of reduced room draft, freeboard ratio of 1.0, and superheated vapor.

#### (2) Monitoring Requirements:

- (A) Weekly, the Permittee shall use a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode.
- (B) The Permittee shall monitor the hoist speed as described below:
  - (i) The Permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes.
  - (ii) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the Permittee may begin monitoring the hoist speed quarterly.
  - (iii) If the exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to the monthly until another year of compliance without an exceedance is demonstrated.

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Harrison Engine Service LaPorte, Indiana 46350 Permit Reviewer: ERG/MT

- (iv) If the Permittee can demonstrate to the commissioner's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.
- (C) The Permittee shall conduct monitoring and record the results, for a reduced room draft, as specified in the following paragraphs:
  - (i) The Permittee shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the windspeed within the enclosure, and a monthly visual inspection of the enclosure to determine if it is free of cracks, holes, and other defects.

#### (3) Reporting Requirements:

An annual report shall be submitted. This report shall include the requirements as follows:

- (a) A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR 63.463(d)(10)."
- (b) An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

#### State Rule Applicability - Entire Source

#### 326 IAC 2-6 (Emission Reporting)

This source is located in LaPorte County and the potential to emit VOC, CO,  $SO_2$ , and  $NO_x$  is less than one hundred (100) tons per year. Its potential to emit PM10 is less than one-hundred (100) tons per year including fugitive emissions, therefore, 326 IAC 2-6 does not apply.

#### 326 IAC 2-8 (FESOP)

The potential to emit each individual HAP will be limited to less than 10 tons per year. This will limit emissions to less than major source levels rendering 326 IAC 2-7 (Part 70 Permit Program) not applicable.

#### 326 IAC 5-1 (Visible Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### State Rule Applicability - Individual Facilities

#### 326 IAC 6-2-4

(a) Particulate emissions from indirect heating facilities constructed after September 21, 1983 shall be limited by the following equation:

Pt = 
$$\frac{1.09}{\Omega^{0.26}}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.

Q = Total source maximum operating capacity rating in million Btu per hour (MMBTU/hr) heat input. The maximum operating capacity rating is defined as maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is conducted in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

For the boiler used at Harrison Engine, the Pt would be calculated to be 1.4 pound per MMBtu. For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6 pounds per MMBtu therefore the limit for the boiler will be set at 0.6 pounds per MMBtu.

(b) Based on the emission calculations this boiler emits less than 0.6 pounds per MMBtus.

#### 326 IAC 6-3-2 (Process Operations)

The particulate matter (PM) from the paint booth SG1, and the insignificant welding operation shall be limited by the following. For the welding operation, the allowable PM emission rate shall not exceed 0.551 pounds per hour when operating at a process weight rate of less than 100 pound per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

E = 
$$4.10 P^{0.67}$$
 where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

The dry paint filter shall be in operation at all times the paint booth is in operation, in order to comply with this limit.

#### 326 IAC 8-1-6 (New Facilities)

The open top vapor degreaser is not subject to 326 IAC 8-1-6 because it was installed in 1963 and is therefore not a new facility and the VOC emissions are less than twenty-five (25) tons per year. The spray paint booth is not subject to 326 IAC 8-1-6 because the potential VOC emissions are less than twenty-five (25) tons per year.

#### 326 IAC 8-2-9 (Miscellaneous Metal Coatings)

The spray paint booth is not subject to 326 IAC 8-2-9 because the source is located in LaPorte County, the potential VOC emissions are less than twenty-five (25) tons per year, and the actual VOC emissions are less than fifteen (15) pound per day.

#### 326 IAC 8-3 (Organic Solvent Degreaser Operations)

The open top vapor degreaser is not subject to 326 IAC 8-3 because it was installed in 1963 and the source is in LaPorte County.

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Harrison Engine Service LaPorte, Indiana 46350 Permit Reviewer: ERG/MT

#### 326 IAC 8-6-1 (Organic Solvent Emission Limitation)

The open top vapor degreaser and spray paint booth are not subject to 326 IAC 8-6-1 because the potential VOC emissions from these facilities is less than one-hundred (100) tons per year.

#### **Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

- 1. The batch open top degreaser has applicable compliance monitoring conditions specified below:
  - (a) The Permittee shall record the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode. The temperature shall be at least 10EF above the solvents boiling point.
  - (b) The Permittee shall determine the hoist speed monthly in the first year and quarterly thereafter unless an exceedance occurs. The hoist speed must be 3.4 meters per minute or less.
  - (c) The Permittee shall conduct monthly monitoring of the windspeed of the enclosure and a monthly visual inspection of the enclosure to determine if it is free of cracks, holes, and other defects. Windspeed shall not exceed 15.2 meters per minute.
  - (d) The Permittee shall maintain records of the HAP usage for each single HAP for each month and the weight of each single HAP emitted. The source shall use less than ten (10) tons per year of a single HAP.

These monitoring conditions are necessary to ensure compliance with 326 IAC 2-8 (FESOP) and 326 IAC 20 (40 CFR Part 63 Subpart T)

- 2. The chrome electroplating operation has applicable compliance monitoring conditions specified below.
  - (a) Tanks 1, 2, 3, and 4 shall be operated such that the pressure drop across the composite mesh-pad system shall be operated within ±1 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple

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Harrison Engine Service LaPorte, Indiana 46350 Permit Reviewer: ERG/MT

performance tests. The pressure drop shall be monitored once each day that a hard chromium electroplating tank is operating.

These monitoring conditions are necessary to ensure compliance with 326 IAC 2-8 (FESOP) and 326 IAC 20 (40 CFR Part 63, Subpart N)

#### Conclusion

The operation of this aircraft cylinder rebuilding facility shall be subject to the conditions of the attached proposed (FESOP No.: F091-12536-00123).

## Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

#### Source Background and Description

Source Name: Harrison Engine Service

Source Location: 301 Detroit Street, LaPorte, Indiana 46350

County: LaPorte SIC Code: 7680

Operation Permit No.: F091-12536-00123

Permit Reviewer: ERG/MT

On February 26, 2001, the Office of Air Quality (OAQ) had a notice published in the La Porte Herald, Argus, Indiana, stating that Harrison Engine Service had applied for a Federally Enforceable State Operating Permit (FESOP) to operate (facility, equipment) with control. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted).

#### Section A and D:

1. The hard chromium electroplating tanks are equipped with a packed-bed scrubber/composite mesh pad system not a composite mesh pad system. Changes to Sections A and D, reflecting this change, are as follows:

#### SECTION A SOURCE SUMMARY

- A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]
  - (c) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 97.02 million Ampere-hours (97,020,000 A-hr) consisting of:
    - (1) Four (4) hard chromium electroplating tanks, identified as Tanks 1, 2, 3, and 4, equipped with a **packed-bed scrubber/**composite mesh pad system exhausting to stack "Scrubber X."

#### SECTION D.3 FACILITY OPERATION CONDITIONS

#### Facility Description [326 IAC 2-7-5(15)]

(c) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 97.02 million Ampere-hours (97,020,000 A-hr) consisting of:

Harrison Engine Service Page 2 of 3
LaPorte, Indiana OP No. F091-12536-00123

Permit Reviewer: ERG/MT

(1) Four (4) hard chromium electroplating tanks, identified as Tanks 1, 2, 3, and 4, equipped with a **packed-bed scrubber/**composite mesh pad system exhausting to stack "Scrubber X."

#### Emission Limitations and Standards [326 IAC 2-8-5(1)]

- D.3.4 Work Practice Standards [326 IAC 20-8-1] [40CFR 63.342(f)]
  - (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain tanks 1, 2, 3, and 4, including the **packed-bed scrubber**/composite mesh pad system and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.3.6.
  - (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.3.6. Revisions may be required if IDEM, OAQ finds that the plan:
    - (1) Does not address a malfunction or period of excess emissions that has occurred:
    - (2) Fails to provide for the operation of tanks 1, 2, 3, and 4, or the **packed-bed scrubber**/composite mesh pad system and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
    - (3) Does not provide adequate procedures for correcting malfunctioning process equipment, **packed-bed scrubber/**composite mesh pad system, monitoring equipment or other causes of excess emissions as quickly as practicable.
- D.3.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for the tanks 1, 2, 3, and 4 and the **packed-bed scrubber**/composite mesh pad system.

- D.3.6 Operation and Maintenance Plan [326 IAC 20-8-1] [40 CFR 63.342(f)(3)]
  - (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of tanks. The OMP shall specify the operation and maintenance criteria for the tanks, the **packed-bed scrubber/**composite mesh pad system and monitoring equipment shall include the following elements:
    - (1) For the packed-bed scrubber/composite mesh-pad system (PBS/CMP):

#### Compliance Monitoring Requirements [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)]

- D.3.8 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)] [440 CFR 63.343(c)]
  - (a) Pursuant to **40 CFR 63.343(c)(3) and** 40 CFR 63.343(c)(1)(ii), when using a **packed-bed scrubber in conjunction with a** composite mesh-pad system to comply with the limit specified in Condition D.3.3, the Permittee shall monitor and record the pressure drop across the composite mesh-pad system during tank operation once each day that

Harrison Engine Service Page 3 of 3
LaPorte, Indiana OP No. F091-12536-00123

Permit Reviewer: ERG/MT

the hard chromium electroplating tank is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ±1 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple performance tests.

#### Record Keeping Requirements [326 IAC 2-8-5(3)] [40 CFR 63.346]

- D.3.9 Record Keeping Requirements [326 IAC 2-8-5(3)] [40 CFR 63.346]
  - (a) Inspection records for the **packed-bed scrubber**/composite mesh pad system and monitoring equipment to document that the inspection and maintenance required by Conditions D.3.7 and D.3.8 have taken place. The record can take the form of a checklist and should identify the following:
  - (b) Records of all maintenance performed on tanks 1, 2, 3, and 4, the **packed-bed scrubber/**composite mesh pad system and monitoring equipment.
  - (c) Records of the occurrence, duration, and cause (if known) of each malfunction of tanks 1, 2, 3, and 4, the **packed-bed scrubber/**composite mesh pads system, the monitoring equipment.
  - (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tanks 1, 2, 3, and 4, the **packed-bed scrubber/**composite mesh pad system and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- D.3.10 Reporting Requirements [326 IAC 2-8-5(3)] [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347]
  - (a) Notifications:
    - (3) Notification of Construction or Reconstruction
      - (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device [i.e., the addition of duct work to the PBS/CMP system (NOTE: Include example only if a PBS/CMP system is used to demonstrate compliance with the chromium emission limitation)].

## Appendix A: Emissions Calculations Natural Gas Combustion Only MM BTU/HR <100

#### **Small Industrial Boiler**

Company Name: Harrison Engine Service, Inc.
Address City IN Zip: 301 Detroit St, Laporte, IN 46350

FESOP: 091-12536-00123

Reviewer: ERG/MT Date: 09/20/2000

Heat Input Capacity\*\*\* Potential Throughput

MMBtu/hr MMCF/yr

0.99 8.63

#### Pollutant

|                               | PM*  | PM10* | SO2  | NOx         | VOC  | CO    |
|-------------------------------|------|-------|------|-------------|------|-------|
| Emission Factor in lb/MMCF    | 7.60 | 7.60  | 0.60 | 100.00      | 5.50 | 84.00 |
|                               |      |       |      | **see below |      |       |
| Potential Emission in tons/yr | 0.03 | 0.03  | 0.00 | 0.43        | 0.02 | 0.36  |

<sup>\*</sup>PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

#### Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

<sup>\*\*</sup>Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

<sup>\*\*\*</sup>This represents the aggregate heat input capacity of the boiler, furnaces, water heater, and expansion oven.

#### Appendix A: Emissions Calculations Natural Gas Combustion Only MM BTU/HR <100

#### Small Industrial Boiler

**HAPs Emissions** 

Company Name: Harrison Engine Service, Inc.
Address City IN Zip: 301 Detroit St, Laporte, IN 46350

FESOP: 091-12536-00123

Reviewer: ERG/TK
Date: 09/20/2000

#### HAPs - Organics

| Emission Factor in lb/MMcf    | Benzene<br>2.1E-03 | Dichlorobenzene<br>1.2E-03 | Formaldehyde<br>7.5E-02 | Hexane<br>1.8E+00 | Toluene<br>3.4E-03 |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| Potential Emission in tons/yr | 9.060E-06          | 5.177E-06                  | 3.236E-04               | 7.766E-03         | 1.467E-05          |

#### HAPs - Metals

| Emission Factor in lb/MMcf    | Lead      | Cadmium   | Chromium  | Manganese | Nickel    |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
|                               | 5.0E-04   | 1.1E-03   | 1.4E-03   | 3.8E-04   | 2.1E-03   |
| Potential Emission in tons/yr | 2.157E-06 | 4.746E-06 | 6.040E-06 | 1.639E-06 | 9.060E-06 |

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

# Appendix A: Emission Calculations HAP Emission Calculations from Degreasing Operations

Company Name: Harrison Engine Service, Inc.

Address City IN Zip: 301 Detroit St, Laporte, IN 46350

FESOP: 091-12536-00123

Reviewer: ERG/MT Date: 09/20/2000

| Material                               | Weight %          | Trichloroethylene<br>Emissions | Trichloroethylene<br>Emissions |
|----------------------------------------|-------------------|--------------------------------|--------------------------------|
|                                        | Trichloroethylene | (lb/hr)                        | (ton/yr)                       |
| Trichloroethylene (degreasing solvent) | 100%              | 3.05                           | 13.36                          |

#### **Total Potential Emissions**

3.05 13.36

#### **METHODOLOGY**

Trichloroethylene Emissions (lb/hr) = Sovent Consumption (gal/day) \* Density (lb/gal) / (hrs operation/day)

Trichloroethylene Emissions (lb/hr) = 1.996 gal/day \* 12.23 lb/gal / 8 hrs/day = 3.05 (lb/hr)

Trichloroethylene emission rate (tons/yr) = Weight % HAP \* 3.05 (lb trichloroethylene/hr) \* 8760 hrs/yr \* 1 ton/2000 lbs

### Appendix A: Emissions Calculations Welding and Thermal Cutting

Company Name: Harrison Engine Service, Inc.
Address City IN Zip: 301 Detroit St, Laporte, IN 46350

FESOP: 091-12536-00123

Date: 09/20/2000

Reviewer: ERG/MT

| PROCESS                                 | Number of | Max. electrode   |           | EMISSION F    | ACTORS     | <b>)</b> * |           | HAPS     |          |          |          |
|-----------------------------------------|-----------|------------------|-----------|---------------|------------|------------|-----------|----------|----------|----------|----------|
|                                         | Stations  | consumption per  |           | (lb pollutant | lb electro | de)        | (lbs/hr)  |          |          |          | (lbs/hr) |
| WELDING                                 |           | station (lbs/hr) | PM = PM10 | Mn            | Ni         | Cr         | PM = PM10 | Mn       | Ni       | Cr       |          |
|                                         |           |                  |           |               |            |            |           |          |          |          |          |
| Tungsten Inert Gas (TIG) (carbon steel) |           |                  |           |               |            |            |           |          |          |          |          |
|                                         | 2         | 0.02             | 0.0055    | 0.0005        |            |            | 2.2E-04   | 2.00E-05 | 0.00E+00 | 0.00E+00 | 2.0E-05  |
|                                         |           |                  |           |               |            |            |           |          |          |          |          |
| Potential Emissions lbs/hr              |           |                  |           |               |            |            | 2.2E-04   |          |          |          | 2.0E-05  |
| Foteritial Ethissions ibs/iii           |           |                  |           |               |            |            | 2.2E-04   |          |          |          | 2.0E-03  |
| Potential Emissions lbs/day             |           |                  |           |               |            |            | 5.3E-03   |          |          |          | 4.8E-04  |
| ,                                       |           |                  |           |               |            |            |           |          |          |          |          |
| Potential Emissions tons/year           |           |                  | 9.6E-04   |               |            |            |           |          | 8.8E-05  |          |          |

#### **METHODOLOGY**

Using AWS average values:  $(0.25 \text{ g/min})/(3.6 \text{ m/min}) \times (0.0022 \text{ lb/g})/(39.37 \text{ in./m}) \times (1,000 \text{ in.}) = 0.0039 \text{ lb/1},000 \text{ in. cut, } 8 \text{ mm thick}$ 

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

Welding and other flame cutting emission factors are from an internal training session document.

Refer to AP-42, Chapter 12.19 for additional emission factors for welding.

welding.wk4 (11/99)

<sup>\*</sup>Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

<sup>\*\*</sup>Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

#### Page 5 of 5 TSD App A

Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations

Company Name: Harrison Engine Service, Inc.
Address City IN Zip: 301 Detroit St, Laporte, IN 46350

FESOP: 091-12536-00123
Reviewer: ERG/MT

Date: 09/20/2000

| Material                          | Density<br>(Lb/Gal) | Weight %<br>Volatile (H20 &<br>Organics) | Weight %<br>Water | Weight %<br>Organics | Volume %<br>Water | Volume %<br>Non-Volatiles<br>(solids) | Gal of Mat.<br>(gal/unit) | Maximum<br>(unit/hour) | Pounds VOC per<br>gallon of coating<br>less water | Pounds VOC per gallon of coating |      |      | Particulate Potential (ton/yr) | lb VOC/gal<br>solids | Transfer<br>Efficiency* |
|-----------------------------------|---------------------|------------------------------------------|-------------------|----------------------|-------------------|---------------------------------------|---------------------------|------------------------|---------------------------------------------------|----------------------------------|------|------|--------------------------------|----------------------|-------------------------|
| SW B66B11 from<br>Spray Gun (SG1) | 8.55                | 75.80%                                   | 56.50%            | 19.30%               | 57.88%            | 18.50%                                | 0.01875                   | 0.50                   | 3.92                                              | 1.65                             | 0.02 | 0.07 | 0.06                           | 8.92                 | 30%                     |

<sup>\*</sup>Transfer efficiency obtained from a baseline transfer efficiency chart for spray coating methods.

State Potential Emissions Add worst case coating to all solvents 0.02 0.07 0.06

#### METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) \* Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) \* Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (8760 hr/yr) \* (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) \* (gal/unit) \* (lbs/gal) \* (1- Weight % Volatiles) \* (1-Transfer efficiency) \*(8760 hrs/yr) \*(1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) \* Weight % organics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used